



2012 CROP STATISTICS AND ANNUAL REPORT

County of San Diego Department of Agriculture, Weights and Measures





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Karen Ross, Secretary,
California Department of Food and Agriculture
and
The Honorable Board of Supervisors of the County of San Diego
Supervisor Greg Cox, Chairman, 1st District
Supervisor Dianne Jacob, Vice Chair, 2nd District
Supervisor Dave Roberts, 3rd District
Supervisor Ron Roberts, 4th District
Supervisor Bill Horn, 5th District

I respectfully submit this report of acreage, yield and value of agricultural production for San Diego County. In 2012, the value of agriculture in San Diego County totaled \$1,747,069,810. This equates to a 4% increase over 2011's total value of \$1,683,745,072. The overall acreage devoted to commercial agriculture went from 300,786 acres in 2011, to 303,983 acres in 2012 for a 1% increase.

The 2012 Crop Statistics and Annual Report details crop information and highlights the many diverse programs within the Department of Agriculture, Weights and Measures. These programs all work to support the County's focus on safe communities, sustainable environments and healthy families.

Thank you to the many farmers, ranchers, nursery men and women, and industry groups who provided information for this report. Additionally I would like to express my appreciation to the Agriculture, Weights and Measures staff for continually providing our customers with superior service.

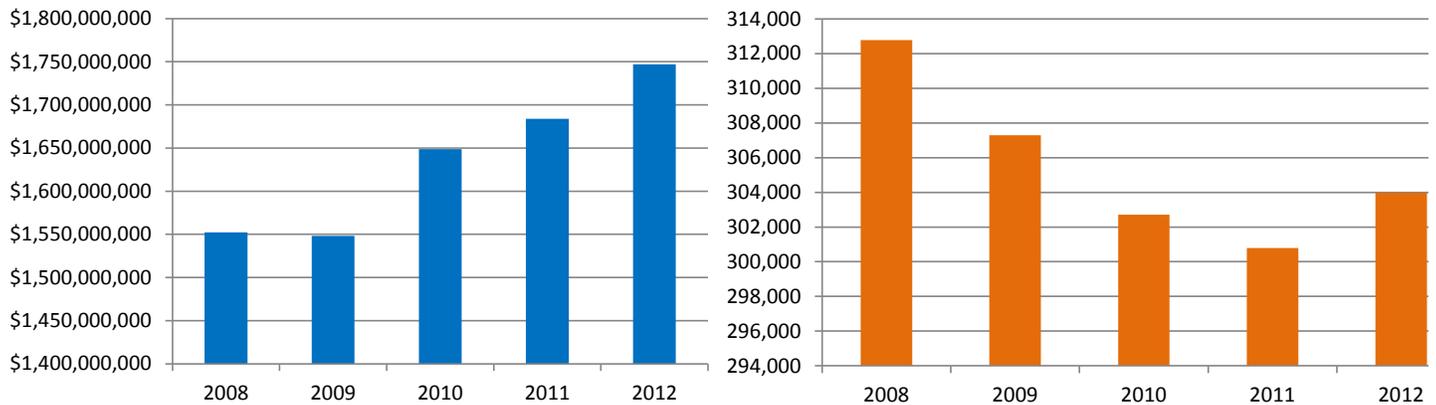
Sincerely,

HA DANG
Agricultural Commissioner/
Sealer of Weights and Measures

2012 Summary of Major Crops

Total Value	\$1,747,069,810			Value Per Acre
Change in Value from 2011	\$63,324,738	Highest Value Crop	<i>Indoor Flowering & Foliage Plants</i>	\$479,000
Percent Change	4%			
Total Acreage	303,983	Lowest Value Crop	<i>Range</i>	\$6
Change in Acreage from 2011	3,197			
Percent Change	1%			

Five Year Comparison of: Total Value -vs- Total Acreage



Overview of Changes

Commercial agriculture in San Diego County increased in value to bring the 2012 total up (4%) to \$1,747,069,810! Overall acreage saw a slight increase (1%) from 300,786 acres in 2011 to 303,983 acres in 2012.

Ornamental Trees and Shrubs continued as top crop, bringing in a total of \$387,216,000 for a slight increase (1%) over 2011's total of \$384,433,569. Following close behind was **Indoor Flowering and Foliage Plants** which went up in value (5%) to \$337,695,000. Nursery and cut flowers (including cut foliage) increased in value to \$1,109,275,096 (1.5%) keeping it above the one billion dollar mark!

Fruit and Nuts had an overall increase (6%) in value for a total of \$338,808,324. This increase is in light of a difficult year for avocados that saw a loss (-24%) in overall value. Wine grapes on the other hand celebrated a big increase (512%), for a total value of \$5,529,907! This can be attributed to planted acreage increasing (81%) from 416 acres to 752 acres.

Vegetables and Vine Fruit had a decrease in acreage (-19%) but an overall increase (6%) in value to \$188,496,460. Lettuce had the highest increase in value (97%) for this category.

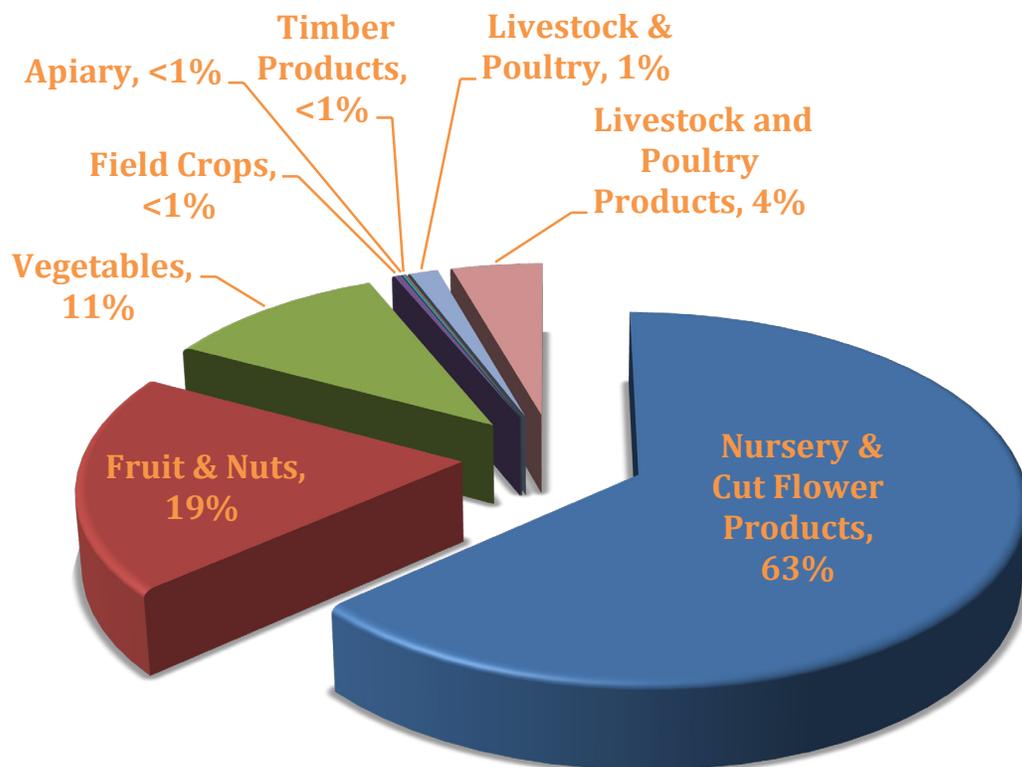
Apiary products again increased across the board with the exception of pollination which remained the same as 2011. The overall increase (6%) in value of apiary products brought the total up to \$2,384,588.

Livestock and Poultry as well as **Livestock and Poultry Products** increased overall to \$24,099,053 (15%) and \$77,114,130 (18%) respectively.

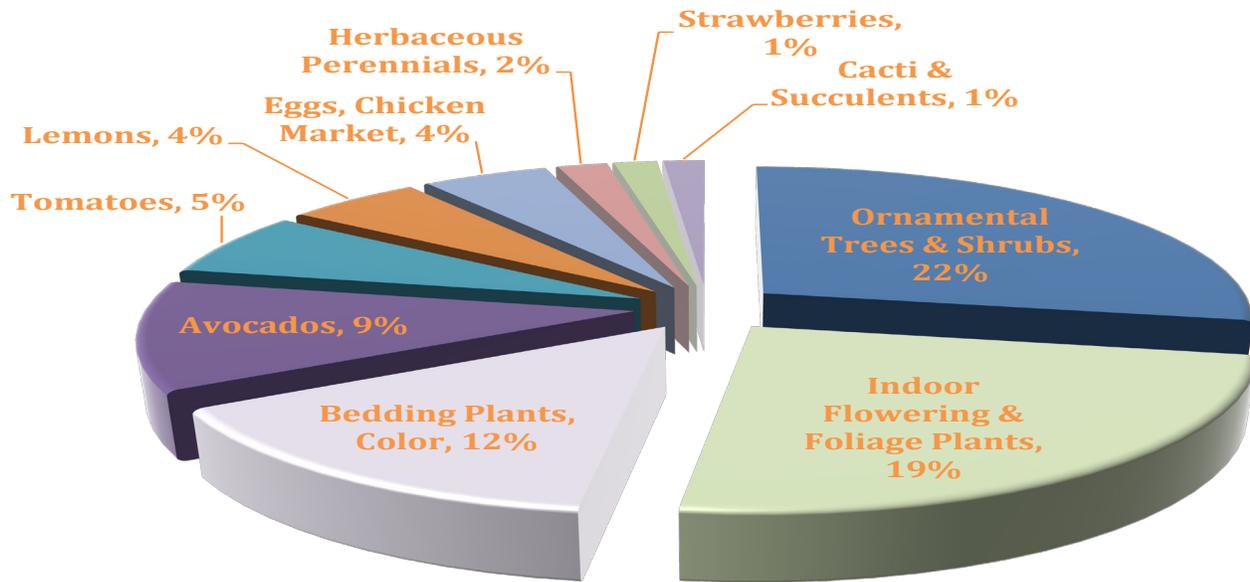
Summary of Major Crops

	Year	Acres	Total Value
Total Nursery & Cut Flower Products	2012	12,735	\$1,109,275,096
	2011	12,173	\$1,092,916,550
Total Fruit & Nuts	2012	38,535	\$338,808,324
	2011	33,838	\$319,205,955
Total Vegetables	2012	5,436	\$188,496,460
	2011	6,686	\$177,013,955
Total Field Crops	2012	247,277	\$6,021,294
	2011	248,089	\$5,038,735
Total Apiary	2012		\$2,384,588
	2011		\$2,245,470
Total Timber Products	2012		\$870,864
	2011		\$777,714
Total Livestock & Poultry	2012		\$24,099,053
	2011		\$20,996,688
Total Livestock and Poultry Products	2012		\$77,114,130
	2011		\$65,550,005
Grand Totals	2012	303,983	\$1,747,069,810
	2011	300,786	\$1,683,745,072

Major Crops By Overall Percentage



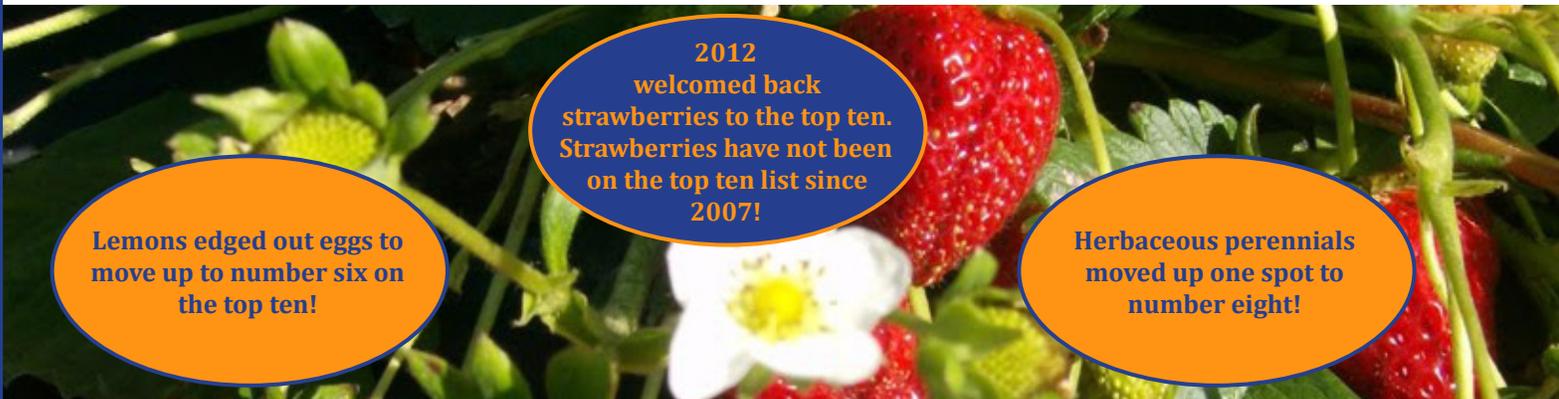
2012 Top Ten Crop Values and Percent



Two Year Comparison of Top Ten Crops

Top 10	2012
Ornamental Trees & Shrubs	\$387,216,000
Indoor Flowering & Foliage Plants	\$337,695,000
Bedding Plants, Color	\$203,720,000
Avocados	\$157,901,949
Tomatoes	\$91,870,260
Lemons	\$71,824,389
Eggs, Chicken Market	\$67,268,538
Herbaceous Perennials	\$26,651,100
Strawberries	\$23,133,600
Cacti & Succulents	\$21,870,000

Top 10	2011
Ornamental Trees & Shrubs	\$384,433,569
Indoor Flowering & Foliage Plants	\$320,850,000
Bedding Plants, Color	\$213,900,000
Avocados	\$208,131,027
Tomatoes	\$81,899,165
Eggs, Chicken Market	\$54,665,626
Lemons	\$40,718,400
Cacti & Succulents	\$25,333,188
Herbaceous Perennials	\$24,125,273
Foliage	\$19,938,534



Lemons edged out eggs to move up to number six on the top ten!

2012 welcomed back strawberries to the top ten. Strawberries have not been on the top ten list since 2007!

Herbaceous perennials moved up one spot to number eight!

San Diego County's Unique Agriculture

San Diego County is the most southwestern county in the continental United States with a geographic area of 4,200 square miles, approximately the size of Connecticut, and a population of more than 3 million.

The National Weather Service describes the San Diego climate as the most nearly perfect in America, characterized as Mediterranean, with warm winters and cool summers.

San Diego County's varied topography creates a wide fluctuation of microclimates resulting in nearly 30 different types of vegetation communities. This diversity allows for San Diego to grow more than 200 different agricultural commodities - from strawberries along the coast, apples in the mountain areas, and citrus in the desert.

San Diego County has the 5th highest population among counties in the United States, and the 19th largest agricultural economy in the U.S.

Agriculture in San Diego County covers 303,983 acres and is a key contributor to San Diego County's economy, along with defense, manufacturing, tourism and biotechnology.

San Diego County has 6,687 farms, more than any other county in the United States. In San Diego County, 68% of farms are 1-9 acres. Nearly 27% of farms in San Diego County are operated by women.

San Diego County produces the highest dollar value per acre (\$479,000) of any county in California!

The Median Size Farm is just 4 acres and yet our county's farmers rank number one in both California and the nation in the production value of nursery, floriculture and avocados.

Statewide, San Diego County is in the top five counties for Nursery Products, Flowers & Foliage, Tomatoes (Fresh Market), Lemons, Avocados, Eggs (Chicken), Mushrooms, and Grapefruit.

San Diego County Farmers produce more than 45 crops, that are valued in excess of \$1 million dollars each.



Nursery and Cut Flower Crops

<i>Crop</i>	<i>Year</i>	<i>Acres</i>	<i>Total</i>
Bedding Plants, Color	2012	926	\$203,720,000
	2011	930	\$213,900,000
Bulbs, Corms, Rhizomes, Roots, Tubers	2012	78	\$624,000
	2011	41.5	\$346,525
Cacti & Succulents	2012	243	\$21,870,000
	2011	282	\$25,333,188
Citrus, Avocado, & Subtropical Fruit Trees	2012	279	\$15,345,000
	2011	280	\$15,406,825
Herbaceous Perennials	2012	381	\$26,651,100
	2011	343	\$24,125,273
Indoor Flowering & Foliage Plants	2012	705	\$337,695,000
	2011	713	\$320,850,000
Ornamental Trees & Shrubs	2012	5,378	\$387,216,000
	2011	4,849	\$384,433,569
Poinsettia	2012	149	\$18,774,000
	2011	154	\$19,250,000
Turf and Cut Christmas Trees	2012	692	\$15,916,000
	2011	692	\$11,712,271
Total Nursery Products	2012	8,831	\$1,027,811,100
	2011	8,285	\$1,015,357,650
<i>Crop</i>	<i>Year</i>	<i>Acres</i>	<i>Total</i>
Leptospermum	2012	399	\$3,141,726
	2011	399	\$2,988,510
Proteas	2012	575	\$4,971,450
	2011	572	\$4,446,728
Wax Flowers	2012	780	\$4,959,240
	2011	779	\$4,679,453
Other Cut Flowers	2012	1,310	\$48,231,580
	2011	1,300	\$45,505,675
Foliage	2012	840	\$20,160,000
	2011	838	\$19,938,534
Total Flower Products	2012	3,904	\$81,463,996
	2011	3,889	\$77,558,900
Total Nursery & Cut Flower Products	2012	12,735	\$1,109,275,096
	2011	12,173	\$1,092,916,550

There are 875 licensed nurseries operating at 1,603 locations in San Diego County.

Indoor Flowering & Foliage plants are the highest value per acre crop grown in San Diego County, \$479,000/acre!

Ornamental Trees & Shrubs is the number one crop grown in San Diego County by value.

A few north county growers were among the first to grow Protea in the United States about 40 years ago!

Nursery & Cut Flower Products have been valued greater than one billion dollars since 2007!

Fruit and Nut Crops

	<i>Year</i>	<i>Acres Harvested</i>	<i>Tons/Acre</i>	<i>Tons Total Production</i>	<i>US \$/Ton</i>	<i>Total</i>
Apples	2012	286	2	572	\$1,404	\$803,088
	2011	266	2	452	\$728	\$329,202
Total Avocados	2012	22,419	4	93,294		\$157,901,949
	2011	17,673	4	65,188		\$208,131,027
Hass	2012	21,038	4	90,634		\$155,099,702
	2011	16,201	4	60,564		\$195,356,160
Lamb-Hass	2012	931	2	1,907		\$2,254,352
	2011	1,031	4	3,775		\$11,496,627
Other	2012	450	2	745		\$547,895
	2011	441	2	849		\$1,278,240
Berries, Misc.	2012	215	7	1,505	\$12,475	\$18,774,875
	2011	298	7	2,086	\$5,357	\$11,174,702
Total Citrus	2012	12,600		174,528		\$116,857,854
	2011	13,487		188,004		\$76,481,631
Total Grapefruit	2012	1,530	20	30,600		\$14,926,680
	2011	1,457	21	30,597		\$12,231,151
Fresh Market	2012		17	27,540	\$529	\$14,568,660
	2011		18	22,948	\$515	\$11,818,091
Byproduct	2012		3	3,060	\$117	\$358,020
	2011		3	7,649	\$54	\$413,060
Kumquats	2012	99	4	396	\$4,600	\$1,821,600
	2011	110	6	660	\$4,000	\$2,640,000
Total Lemons	2012	3,477	20	69,540		\$71,824,389
	2011	3,992	18	71,856		\$40,718,400
Fresh Market	2012		17	59,109	\$1,159	\$68,507,331
	2011		16	63,872	\$625	\$39,920,000
Byproduct	2012		3	10,431	\$318	\$3,317,058
	2011		2	7,984	\$100	\$798,400
Total Limes	2012	372	9	3,348		\$1,771,464
	2011	400	10	3,724		\$1,376,760
Fresh Market	2012		7	2,604	\$650	\$1,692,600
	2011		7	2,800	\$462	\$1,293,600
Byproduct	2012		2	744	\$106	\$78,864
	2011		3	924	\$90	\$83,160
Total Oranges, Navel	2012	1,122		16,830		\$6,812,784
	2011	1,178		19,184		\$5,544,260

Fruit and Nut Crops

	Year	Acres Harvested	Tons/Acre	Tons Total Production	US \$/Ton	Total
Fresh Market	2012		12	13,464	\$461	\$6,206,904
	2011		11	12,369	\$370	\$4,576,530
Byproduct	2012		3	3,366	\$180	\$605,880
	2011		6	6,815	\$142	\$967,730
Total Oranges, Valencia	2012	5,031		40,248		\$13,372,398
	2011	5,280		47,538		\$9,718,880
Fresh Market	2012		6	30,186	\$354	\$10,685,844
	2011		7	36,974	\$238	\$8,799,812
Byproduct	2012		2	10,062	\$267	\$2,686,554
	2011		2	10,564	\$87	\$919,068
Total Tangerines, Tangelos	2012	969		13,566		\$6,328,539
	2011	1,070		14,445	\$294	\$4,252,180
Fresh Market	2012		11	11,124	\$543	\$6,040,397
	2011		12	12,305	\$320	\$3,937,600
Byproduct	2012		3	2,442	\$118	\$288,142
	2011		2	2,140	\$147	\$314,580
Grapes, Wine	2012	752	6	4,813	\$1,149	\$5,529,907
	2011	416	2	832	\$1,086	\$903,552
Macadamia Nuts	2012	67	1	67	\$3,633	\$243,411
	2011	67	1	67	\$2,400	\$160,800
Misc Fruit & Nuts	2012	1,364				\$13,732,752
	2011	980				\$7,189,280
Persimmons	2012	472	3	1,416	\$1,293	\$1,830,888
	2011	421	4	1,789	\$599	\$1,071,761
Strawberries	2012	360	36	12,960	\$1,785	\$23,133,600
	2011	222	31	6,882	\$2,000	\$13,764,000
Total Fruit & Nuts	2012	38,535				\$338,808,324
	2011	33,838				\$319,205,955

Avocados ranked fourth on the top ten commodities based on value despite a loss of 24% in value for 2012.

Overall Value for Fruit & Nuts increased 6%!

Wine Grapes went up in acreage from 416 to 752! Overall value had an amazing increase of 512%!

Vegetable and Vine Crops

<i>Crop</i>	<i>Year</i>	<i>Acres Harvested</i>	<i>Tons/Acre</i>	<i>Tons Total Production</i>	<i>US \$/Ton</i>	<i>Total</i>
Beans, Snap	2012	200	5	1,050	\$1,302	\$1,367,100
	2011	281	6	1,574	\$1,344	\$2,114,918
Bunch Vegetables*	2012	470				\$4,143,050
	2011	483				\$4,257,645
Corn, Sweet	2012	109	9	954	\$416	\$396,760
	2011	148	3	459	\$1,020	\$467,976
Cucumbers	2012	169	17	2,873	\$832	\$2,390,336
	2011	242	17	4,114	\$732	\$3,011,448
Herbs	2012	369	11	4,059	\$4,572	\$18,557,748
	2011	375	11	4,200	\$4,028	\$16,917,600
Lettuce	2012	517	14	7,093	\$698	\$4,951,082
	2011	575	13	7,475	\$336	\$2,511,600
Melons	2012	120	4	480	\$850	\$408,000
	2011	174	4	696	\$450	\$313,200
Mushrooms	2012	28	129	3,612	\$3,420	\$12,353,040
	2011	28	137	3,836	\$3,220	\$12,351,920
Oriental Vegetables**	2012	10				\$111,010
	2011	13				\$106,626
Peppers	2012	136	22	2,992	\$1,250	\$3,740,000
	2011	162	19	3,119	\$1,000	\$3,118,500
Potatoes	2012	405	15	6,075	\$520	\$3,159,000
	2011	600	13	7,800	\$330	\$2,574,000
Squash	2012	540	10	5,400	\$574	\$3,099,600
	2011	430	9	3,655	\$600	\$2,193,000
Tomatoes	2012	1,427	20	28,540	\$3,219	\$91,870,260
	2011	2,167	42	90,797	\$902	\$81,899,165
Misc Vegetables***	2012	936				\$41,949,474
	2011	1,008				\$45,176,357
Total Vegetables	2012	5,436				\$188,496,460
	2011	6,686				\$177,013,955

*Includes: collards, green onions, mustard and turnip greens, parsley, radishes, and spinach

**Includes: bok choy and Asian greens

***Includes: cauliflower, celery, chayote, tomatillos, and others

Field and Specialty Crops

	Year	Acres	Tons/ Acre	Total Tons	US \$/Ton	Total
Barley, Grain	2012					\$0
	2011	530	1	292	\$192	\$55,968
Greenchop	2012					\$0
	2011	38	18	684	\$33	\$22,572
Hay, Oat	2012	4,752	2	9,504	\$176	\$1,672,704
	2011	5,443	1	5,443	\$166	\$903,538
Pasture, Irrigated	2012	1,500				\$2,850,000
	2011	1,422				\$2,647,385
Range	2012	240,630				\$1,443,780
	2011	240,630				\$1,395,653
Silage	2012					\$0
	2011	26	20	520	\$26	\$13,619
*Misc. Field	2012	395				\$54,810
Total Field Crops	2012	247,277				\$6,021,294
	2011	248,089				\$5,038,735

Apiary Crops

Timber Crops

	Year	Total
Timber	2012	\$10,189
	2011	\$9,254
Firewood	2012	\$860,675
	2011	\$768,460
Total Timber Products	2012	\$870,864
	2011	\$777,714

	Year	Total
Honey	2012	\$916,451
	2011	\$856,496
Beeswax	2012	\$65,101
	2011	\$50,078
Bees & Queens	2012	\$160,467
	2011	\$107,696
Pollen	2012	\$92,568
	2011	\$81,200
Pollination	2012	\$1,150,000
	2011	\$1,150,000
Total Apiary	2012	\$2,384,588
	2011	\$2,245,470

*Includes: Barley, Greenchop and Silage

All Apiary Crops increased in value with the exception of pollination which stayed the same.

The value of Beeswax increased in value by 30% from 2011 to 2012!

Livestock and Poultry

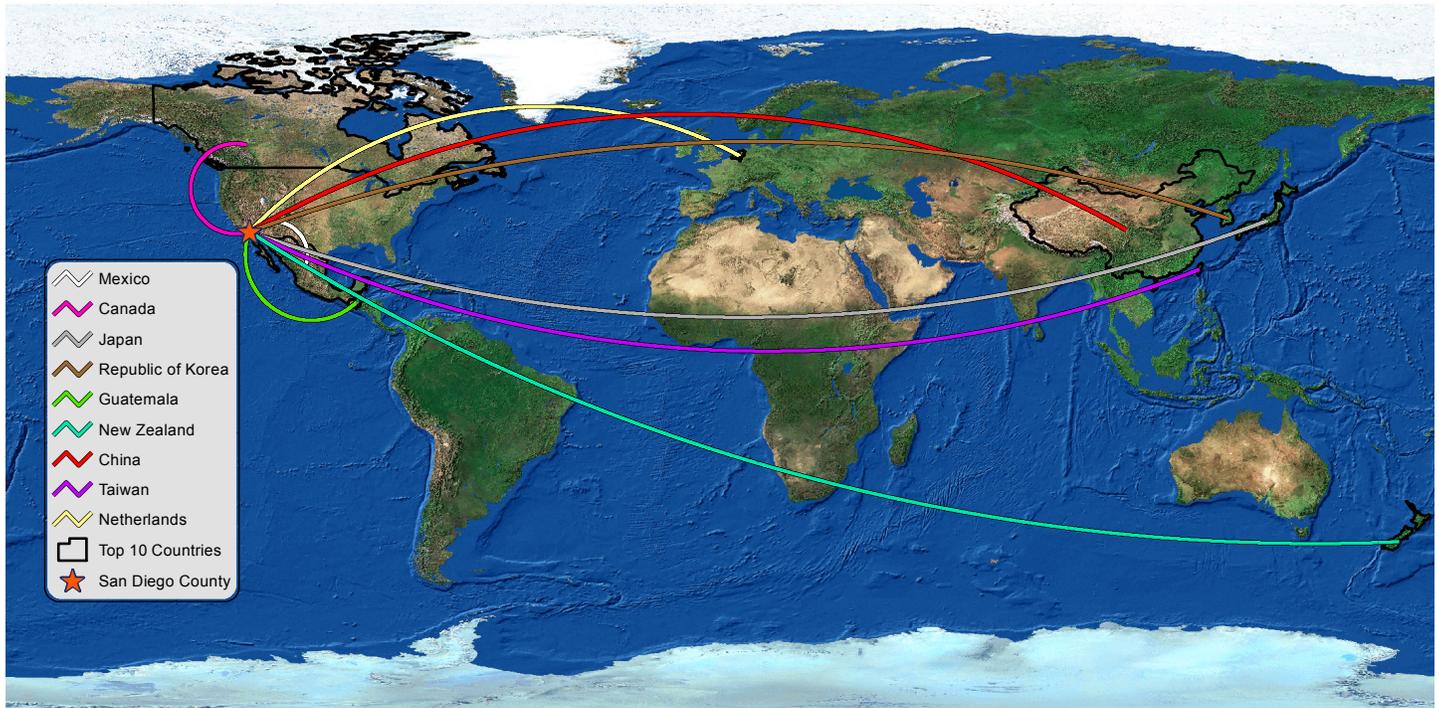
	Year	Number of Head	Total Weight CWT	US \$/CWT	Total
Cattle and Calves	2012	16,500	148,500	\$128	\$19,008,000
	2011	16,500	148,500	\$113	\$16,780,500
Hogs and Pigs	2012	653	1,633	\$60	\$97,653
	2011	653	1,633	\$55	\$89,788
Chickens	2012		86,200	\$57	\$4,913,400
	2011		86,200	\$47	\$4,051,400
Lambs and Sheep	2012	1,000	1,000	\$80	\$80,000
	2011	1,000	1,000	\$75	\$75,000
Total Livestock & Poultry	2012				\$24,099,053
	2011				\$20,996,688

Livestock and Poultry Products

	Year	Number	Weight CWT	US \$/Unit	Total
Milk, Market	2012		509,372	\$17	\$8,450,488
	2011		515,967	\$19	\$9,555,709
Eggs, Chicken Market	2012	70,071,394 dz		\$0.96	\$67,268,538
	2011	70,994,320 dz		\$0.77	\$54,665,626
Ratite Products Total	2012	1,000 gal			\$1,395,104
	2011	1,000 gal			\$1,328,670
Ratite Oil	2012	1,000 gal			\$1,395,104
	2011	1,000 gal			\$1,328,670
Total Livestock and Poultry Products	2012				\$77,114,130
	2011				\$65,550,005



International Trading Partners



San Diego County agricultural products were shipped to 46 different countries totaling 8,645 shipments!

Nearly 67% (5,766) of the total agricultural products shipped in 2012 went to our neighbor to the south, Mexico.

14 countries recieved 10 or more shipments of agricultural products from San Diego County in 2012!

Country	Shipments
Mexico	5,766
Canada	1,607
Japan	810
Korea, Republic of	93
Guatemala	52
New Zealand	46
China	46
Taiwan	33
Netherlands	17
Australia	15
Denmark	12
Costa Rica	11
Germany	11
Thailand	10
Italy	9
United Kingdom	9

Country	Shipments
Colombia	8
South Africa	8
Israel	7
Spain	7
Singapore	7
United Arab Emirates	6
Dominican Republic	5
Honduras	5
Trinidad and Tobago	5
Jamaica	4
Bermuda	4
Chile	4
Hong Kong	3
Poland	3
Qatar	3
Russian Federation	3

Country	Shipments
Ukraine	2
India	2
Morocco	1
Belgium	1
Czech Republic	1
French Polynesia	1
Jordan	1
Martinique	1
Micronesia, Federated States of	1
Nicaragua	1
Philippines	1
Portugal	1
Indonesia	1
Ecuador	1

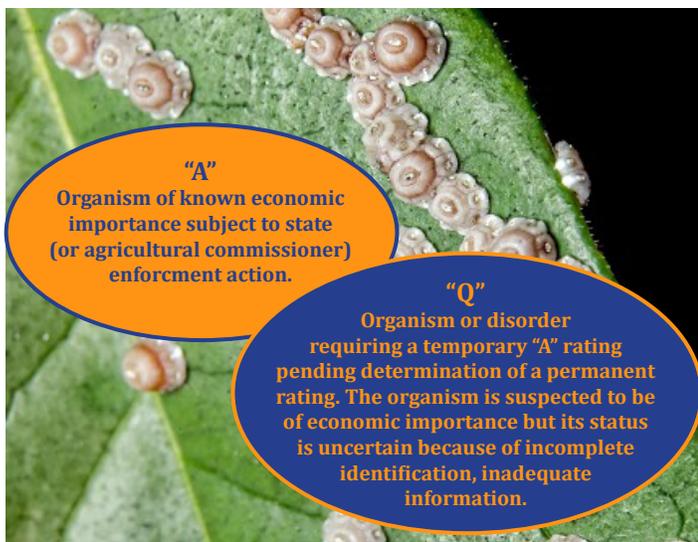
Sustainable Agriculture

Sustainable Agriculture promotes the economic viability of agriculture while preserving natural resources and the environment. Pest prevention activities are essential to inhibiting the spread of exotic pests and ensuring a sustainable agricultural industry in California.

The Department of Agriculture, Weights and Measures administers programs for the detection, control and eradication of insect pests, plant diseases and invasive weeds, as well as for the enforcement of quarantines to prevent the spread of invasive pests.

"A" Rated Finds	Common Name	# Found	"Q" Rated Finds	Common Name	# Found
<i>Allopeas sp.</i>	awl snail	1	<i>Acutaspis agavis</i>	Mexican agave scale	1
<i>Ceroplastes rusci</i>	fig wax scale	4	<i>Agrilus auroguttatus</i>	gold spotted oak borer	1
<i>Diaphorina citri</i>	Asian citrus psyllid	14	Aphididae	aphid	1
<i>Epiphyas postvittana</i>	light brown apple moth	3	<i>Auchenorrhyncha sp.</i>	leafhopper	2
<i>Fusarium oxysporum</i>	palm wilt	15	<i>Ceroplastes destructor</i>	white waxy Scale	1
<i>Gymnaspis aechmeae</i>	fly speck scale	1	<i>Ceroplastes dugesii</i>	Duges wax scale	2
<i>Hemiberlesia palmae</i>	tropical palm scale	3	<i>Ceroplastes sp.</i>	wax scale	1
<i>Paracoccus sp.</i>	mealybug	1	Cicadellidae	leafhopper	1
<i>Pinnaspis strachani</i>	lesser snow scale	12	Crambidae	moth	1
<i>Pseudaulacaspis cockerellii</i>	magnolia white scale	9	Deltocephalinae	leafhopper	1
<i>Rotylenchus reniformis</i>	Reniform nematode	1	Diaspididae	armored scale	1
<i>Solenopsis invicta</i>	red imported fire ant	16	Diptera	fly maggot	1
<i>Volutaria canariensis</i>	Canary Island knapweed	1	<i>Dysmicoccus sp.</i>	mealybug	1
			<i>Dysmicoccus sylvorum</i>	bromeliad mealybug	6
			Gelechiidae	moth	1
			<i>Heilipus sp.</i>	tropical weevil	1
			<i>Hypogeococcus boharti</i>	Bohart mealybug	1
			Lepidopteran	moth	2
			Limacidae	keelback slug	1
			<i>Limonium binervosum</i>	Rock Sea-lavender	1
			<i>Meghimatium bilineatum</i>	philomyxid slugs	1
			<i>Micrapate sp.</i>	false powder post beetle	1
			<i>Nipaeococcus sp.</i>	mealybug	1
			Noctuidae	moth	1
			<i>Oidium aloysiae</i>	Powdery mildew	1
			<i>Paracoccus sp.</i>	mealybug (agave)	70
			<i>Parmarion sp.</i>	semi-slug	1
			Pentatomidae	five-sided stinkbug	1
			<i>Pheidole sp.</i>	big-headed ant	1
			<i>Pseudococcus donrileyi</i>	Riley citrus mealybug	1
			<i>Pseudococcus jackbeardsleyi</i>	Jack Beardsley mealybug	2
			<i>Pseudococcus sp.</i>	mealybug (agave)	38
			<i>Pseudonoctonus sp.</i>	ant	1
			<i>Singhiella simplex</i>	figus whitefly	10
			Subulinidae	subulina snail	1
			<i>Technomyrmex albipes</i>	white-footed ant	1
			<i>Trialeurodes sp.</i>	whitefly	1
			<i>Uromyces transversalis</i>	Gladiolus rust	2
			<i>Zachrysia provisoria</i>	awl snail	3

Overall pest significance is the basis for determining what pest prevention activities are appropriate. Each pest rating represents the California Department of Food and Agriculture's view of the statewide importance of the pest to the agricultural, horticultural, forestry, and public health interests of California.



Pest ratings are intended as aids to inform county agricultural commissioners and other interested persons as to a particular pest's environmental, agricultural and biological significance, as well as its importance to the general public, and the action recommended by the California Department of Food and Agriculture to deal with the pest.

Sustainable Agriculture

Dog Team 2012 Highlights:

- The dogs alerted on 8,404 packages shipped through Fed-Ex and UPS
- 446 of those packages were not marked as containing plant material and 431 actually contained plant material (97% accuracy rate)
- 22 inspections were conducted at the main shipping terminal in San Diego County for the USPS resulting in alerts on 267 parcels (dog team inspections at the USPS began in September of 2012)
- 356 Notices of rejection were issued to shippers in violation of the Food and Agricultural Code



High Risk Pest Exclusion 2012 Highlights:

- 7,041 shipments inspected
- 179 Notices of Rejection were issued
- 112 pests were found (20 A-rated, 58 B-rated, 34 Q-rated)
- 3 international border operations



<i>Top 10 Organic Crops</i>	<i>Acres</i>
1. Avocado	2,486
2. Orange	1,207
3. Lemon	1,207
4. Grapefruit	513
5. Tangelo/Tangerines	294
6. Chard	136
7. Blueberry	73
8. Cucumber	72
9. Beans (fresh market)	61
10. Lettuce	46

Organic Farming

San Diego county is at the forefront of organic farming with 348 registered organic producers. In 2012, organic growers produced more than 125 different crops, from avocados to pineapple. The majority of organic produce grown locally is sold to wholesalers who in turn sell it to markets across the United States. A portion of the produce is sold directly to local restaurants and natural food stores. Organic growers also sell directly to the public through produce stands, Certified Farmers' Markets throughout the County of San Diego, and Community Supported Agriculture (CSA) programs. The USDA's National Organic Standards Board defines "organic agriculture" as an ecological production management system that promotes and enhances biodiversity, biological cycles, and soil biological activity.

Invasive Weed Control

<i>Weed Species</i>	<i>Rating</i>	<i>Removal Method</i>	<i>Scope of Treatment</i>
Canary Island knapweed, <i>Volutaria canariensis</i>	A	Herbicides/Hand Removal	1 site, 5 acres
Spotted knapweed, <i>Centaurea maculosa</i>	A	Hand Removal	1 site, 0.25 acres
Purple loosestrife, <i>Lythrum salicaria</i>	B	Hand Removal	1 site, 0.25 acres
Perennial pepperweed, <i>Lepidium latifolium</i>	B	Herbicides	51 sites, 22.1 acres
Tamarisk, <i>Tamarix parviflora</i>	B	Herbicides	1 site, 15.8 acres
Yellow starthistle, <i>Centaurea solstitialis</i>	C	Herbicides/Hand Removal	14 sites, 65.1 acres

Supporting Local Agriculture

visit Farmers' Markets, Farm Stands and U-Pick Farms

Visiting a Certified Farmers' Market, Farm Stand or U-Pick Farm is a wonderful way to support local agriculture and experience locally grown produce



packed with flavor. That "fresh from the vine" taste will transport you back to your youth when locally grown food was the standard.

It is not simply the type of produce that makes for a delicious adventure; it is the variety that is grown. Local growers can offer varieties of fruits and vegetables that are known for their flavor but cannot hold up to shipping over long distances. Produce is also harvested at its peak rather than picked green to allow for ripening while being transported.

These venues not only provide local fruits, vegetables, eggs, honey and flowers, just to name a few, but also a way to reconnect to the land, a learning environment for children and adults and an alternative to imports. Some certified farmers' markets even go beyond the normal fruits and vegetables to include fresh meats and seafood. You can even find artisan breads, salsas, cheese and juices which all complement the variety of produce for a complete meal.

If it's color you are looking for then behold the array of flowers, foliage and plants offered for sale. You can even buy a vegetable plant and what it will produce at the same place! That's like having your cake and eating it too!

What does it mean to be a *certified* farmers' market? A certified farmers' market (CFM) is a location approved by the County Agricultural Commissioner where certified farmers

offer for sale only those agricultural products they grow themselves, or products from another certified farmer.



So, how is a farmer certified?

Inspectors from the Department of Agriculture, Weights and Measures inspect farms and other properties to verify what is raised or grown there. After meeting the requirements of the inspection, the farmer is certified for specific products. This certification allows the farmer to sell his produce at Certified Farmers' Markets.

A farm stand on the other hand is located on the grower's property. Growers can sell what is grown on their property at a farm stand without needing to be certified.



A U-pick farm is just as it sounds - growers allow customers to enter their fields to pick produce which is usually sold by the pound or by container. Popular

products of U-pick farms in San Diego County include strawberries, apples, persimmon and pomegranates.

A certified farmers' market offers produce that has been picked within a day, a farm stand offers produce that has been picked within hours and a U-pick farm offers produce that has been picked within minutes! Local growers provide a true "farm to fork" opportunity.

With a keen eye, you can even tell when the seasons change by the change in what is offered at a certified farmers' market, farm stand or U-pick. As Mother Nature puts one crop to bed, she is gently waking up another. Broccoli, cabbage and carrots give way to eggplant, figs and grapes. Don't blink or you may miss short season crops like blackberries, raspberries and boysenberries!

San Diego County has 57 certified farmers' markets, and a variety of seasonal farm stands and U-pick farms. For information on days and times certified farmers' markets are open, check the County of San Diego Department of Agriculture, Weights and Measures website at www.sdcawm.org under the Agriculture tab.



Programs & Services

Agricultural Water Quality performs inspections at nurseries, greenhouses, golf courses, cemeteries, and pest control businesses ensuring compliance with the County's Stormwater Permit, mandated by the San Diego Regional Water Quality Control Board. Inspections, education, and investigations are aimed at stopping the potential for discharging pollutants such as fertilizers, pesticides, and sediment into local waterways. Highlights for 2012:

- 284 inspections completed
- 17 complaints investigated

Civil Actions advocates for the department on actions brought against a person or business due to violations found through inspections. Highlights for 2012:

- 37 Certified Farmers' Markets
- 425 Weights & Measures (including scanners)
- 44 Agricultural and 20 Structural Pesticides

Integrated Pest Control works under the Board of Supervisors' policy mandating an integrated pest management approach which includes the careful use of pesticides to ensure minimal risk to human health and the environment. Mechanical methods are used whenever possible in the control of invasive weeds, habitat restoration, and structural pest control. Highlights for 2012:

- 2,718 acres of weed control performed on county roadside rights of way, airports, landfills, parks, water pollution control facilities, and flood control sites
- 108 acres of invasive weeds treated with herbicides
- 35 acres of manual/mechanical weed removal
- 283 acres surveyed for invasive weeds
- 184 County facilities treated for structural pests
- 144 lbs. of native grass and vegetation seed spread at San Dieguito River Park
- 70 willow cuttings planted at San Dieguito River Park

Entomology and Plant Pathology Labs provide rapid insect and plant disease identification allowing a quick response in the fight against pests. Highlights for 2012:

- Entomology lab performed 31,598 determinations
- Plant Pathology Lab processed 2,599 samples

Pesticide Regulation enforces state laws and regulations. Inspections, complaint and illness investigations, and evaluations of restricted material permits all serve to ensure pesticides are used in a safe and effective manner while protecting human and animal health and the environment. Highlights for 2012:

- Hosted the San Diego Structural Fumigation Enforcement Committee meetings
- Implemented the "Back to Basics" approach to issuing Restricted Materials Permits within the California Department of Pesticide Regulation permitting framework, which provides a more consistent, accurate and understandable permit

- Provided free Field Worker Training sessions in Spanish to field workers who are compensated to perform cultural activities, such as planting, harvesting, weeding, irrigating, etc.
- Conducted 42 undercover inspections of structural fumigation companies

Environmental Services prepares crop information, provides agricultural expertise for land use projects, performs verification of agriculture inspections for farm worker housing, coordinates media and outreach, and maintains AWM's internet and social media sites.

Plant Health and Pest Prevention is the first line of defense in keeping unwanted pests out of our county. Inspections of incoming and outgoing plant shipments and production nurseries look for pests harmful to agricultural production here or at the shipment destination. Highlights for 2012:

- 7,041 incoming plant shipments inspected with 112 actionable pest finds
- 431 unmarked parcels intercepted by dog teams containing plant material, 8 with actionable pest finds
- 287 nurseries comprising 5,205 acres inspected and certified as free from sudden oak death disease, *Phytophthora ramorum*.
- 573 nurseries inspected comprising 9,932.72 acres for pests and diseases.

Pest Detection is a critical component of our statewide pest prevention network and is our county's second line of defense against the introduction and spread of insect pests, such as exotic fruit flies, Japanese beetle, and Gypsy moth. 435,275 trap inspections were conducted in 2012.

Standards Enforcement protects consumers by testing commercial weighing and measuring devices, performing price verification on Point-of-Sale systems (scanners), inspecting certified producers and farmers' markets, roadside produce stands, and conducting organic registrations and shell egg quality inspections. Highlights for 2012:

- 49,736 commercial weighing and measuring devices inspected with a 93% compliance rate.
- 57 active farmers' markets and 226 local growers certified in San Diego County.
- 348 growers registered as organic.
- 673,724 dozens of eggs inspected at 144 egg facilities.
- 358 consumer complaints investigated regarding commercial scales, meters, petroleum, or price overcharges.
- 48 fruit & vegetable standardization inspections conducted.
- 22,375 items scanned at 1,672 retail locations. 334 (20%) POS locations inspected had overcharges.



COMMISSIONER LEADER MENTOR

This edition of the Crop Report is dedicated to Lisa M. Leondis, who was the Agricultural Commissioner/Sealer during this crop report period. Lisa retired as San Diego County's Agricultural Commissioner/Sealer in 2013, after 26 years of service to the agricultural community. She received a bachelor's degree in Agricultural Business Management from Cal Poly San Luis Obispo and is also a graduate of the California Agricultural Leadership Program. Lisa started her career as a pesticide use inspector in Monterey County in 1982 and came to San Diego in 1987 to work for the San Diego County Department of Agriculture, Weights and Measures (AWM). During her tenure at AWM, she gained program experience in Exotic Fruit Fly Detection, Pest Management, Pesticide Regulation, Plant Protection and Quarantine, and Weights & Measures. In addition, she also spent five years with the Hazardous Materials Division of the County of San Diego Department of

Environmental Health, where she earned her Registered Environmental Health Specialist license. Lisa served as a Deputy Commissioner/Sealer with AWM for 13 years and also fulfilled the roles of Deputy Director and Assistant Director. She loves the outdoors and her hobbies include hiking, backpacking and rafting. Her retirement plans include pursuing her hobbies, traveling and spending time with family and friends. We thank Lisa for her career committed to excellence in public service and wish her many happy years of retirement!

San Diego County
 Department of Agriculture, Weights & Measures
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 Email: sdcawm@sdcounty.ca.gov

<i>Program</i>	<i>Services</i>	<i>Number</i>
Agricultural Water Quality	Stormwater; agricultural hazardous material storage	(858) 694-8980
Entomology	Insect identification; apiary registration; pest surveys	(858) 614-7738
Environmental Services	Crop statistics; land use issues; public information	(858) 614-7776
Integrated Pest Control	Invasive weed control; structural pest control for county owned buildings	(858) 614-7750
Plant Health & Pest Prevention	Licenses to sell nursery products, flowers, & foliage; shipping certificates; Inspections: incoming/outgoing shipments; nursery; glassy-winged sharpshooter; sudden oak death Inspection Request Line	(760) 752-4700 (760) 752-4713
Pest Detection	Exotic insect trapping/eradication	(858) 614-7770 (800) 300-TRAP
Pesticide Regulation	Voluntary compliance inspections; registration; operator identification numbers; pesticide use reporting; restricted materials permits; employee pesticide training requirements; pesticide complaints	(858) 694-8980
Plant Pathology	Plant disease diagnostic services; plant disease surveys	(858) 614-7734
Standards Enforcement	Certified farmers' markets; certified producer certificates; organic handler/producer; egg producer/handler; scanner registration; commercial weighing & measuring devices; device serviceperson; weighmaster	(858) 694-2778

The 2012 Crop Statistics and Annual Report was produced by Supervising Agricultural/Standards Inspector Vince Acosta and Senior Agricultural/Standards Inspector Colleen Carr with assistance from GIS Analyst John Taylor. Cover photo taken by Colleen Carr.

All reported figures represent Freight on Board (F.O.B.) values for products. These are not net values and do not reflect cost of production. Total values may not add precisely due to rounding. Gross value of farm products does not reflect the total value to the economy.



Department Personnel 2012



Lisa Leondis

Agricultural Commissioner/Sealer of Weights & Measures

Sandy Parks
Assistant Director

Nganha Dang
Deputy Director

Administration

Veronica Allen, Prin Admin Analyst	Sandra Luck, Office Assistant
Susan Aragaki, Admin Analyst III	Eileen Oleson, Office Assistant
Armando Belenzo, Accounting Technician	Cirila Pieper, Account Clerk
Shirley Chin, Senior HR Officer	Marci Powell, Admin Sec IV
Erlinda Espiritu, Purchasing Clerk	Belinda Rushton, HR Specialist
Aida Foronas, Senior Accountant	
Linda Goff, Admin Analyst I	

IT/GIS/Environmental Services

Vince Acosta, Supv ASI	
Jeff Westrick, Sr ASI	John Taylor, GIS Analyst
Colleen Carr, Sr ASI	

Civil Actions

Sally Lorang, Civil Actions Investigator	
Paul Rushton, Office Assistant	Kenni Huynh, Student

Plant Health & Pest Prevention

Karen Melvin Deputy Commissioner & Sealer	Jim Wynn Deputy Commissioner & Sealer
Delores Brandon, Supv ASI	Merle Van Cleve, Sr IDS
Katie Dobbins, Supv ASI	Charity McGuire, Admin Sec II
Travis Elder, Supv ASI	Robin Royall, Office Asst
Robert Roma, Supv ASI	Leah Taylor, Student
Tracy Ellis, Ag Scientist	Avery Throop, Student
Pat Nolan, Ag Scientist	Doris Chen, Temp

Standards Enforcement

Jim Byers, Deputy Commissioner & Sealer

Nancy Stalnaker, Supv ASI	Mark Roughton, Sr Office Asst
Cindy Davis, Supv ASI	Ris Burton, Office Asst
Mazen Stevens, Supv ASI	

Agricultural/Standards Inspectors

Tony Avina	Jaime Garza	Vicente Rodriguez
Warren Bacon	Nicole Goss	Alex Romo
Chris Betschart	Saiqa Javed	Jason Sapp
Clark Bixby	Robert MacGregor	Kristina Scott
Paul Broding	Narriman McNair	Ann Sixtus
Randy Carrera	Ted Matsumoto	Greg Terhall
Kristi Conway	Adrienne Moss	Lindsay Worcester
Robert Delaval	Jorge Olivares	Daniel Wristen
Stephen Desserich	Ted Olsen	Muluneh Wube
Manige Farhoomand	Lynn Parker	Priscilla Yeaney
Mike Feeley	Jeremy Partch	
Kahsai Ghebretseha		

Agricultural/Standards Inspectors

Veronica Anzaldo	Lynn Gordon	Jennepher Tate-Murphy
Dennis Blackman	Mark Griffin	Quang Ong
Tom Bloomer	Lee Guidry	Kevin Porter
Glenn Braaten	Edith Heaton	Brad Shipley
Robert Bryant	Tim Holbrook	Annie Silva
Neil Connelly	Atlaw Kebede	Claudia Verdugo
Janice Deguzman	John Kinkaid	Bill Winans
Louis Deneau	Craig Lawson	
Paula Dewall	Mark Lyles	

Insect Detection Specialists

Sulpicio Agnes, Jr.	Joyce Mangen	Ivonne Torres
Rishi Avila	Steve Robinson	Paul Wadman
Shady Hajjar	Gene Seebly	Bonnie Wheeler
Ian Hudson	Joan Thewlis	

Pest Detection

Marco Mares, Deputy Commissioner & Sealer

Tim Breuninger, Sr IDS	Cameron Guyot, Dept Clerk
Linda Feeley, Sr IDS	Morgan Ude, Student
Charles Gross, Sr IDS	

Insect Detection Specialists

Orlando Alfaro	Lynne Gardner	Janeen Reed
Guy Allingham	Alberto Hernandez	Mary Rowin
Richard Arne	Kim Hock	Alan Sharon
Linda Blank	Mohamed Jama	Austin Shepherd
Brian Burkman	Roy Joseph	John Velardi
Raul Burquez	Bill Leech	Fran Wade
Manuel Casillas	Linda McCombs	Valerie Wagner
Vanessa Chavez	Bob Miller	
Casey Choate	Belinda Moss	
Jorge Fregoso	Dusko Pantovic	

Wildlife Services

Joe Albee	Terry Cox	Paul Martin
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Pesticide Regulation

Megan Moore, Deputy Commissioner & Sealer

Jose Arriaga, Supv ASI	Sabumon Joseph, Office Asst
Tim Holbrook, Supv ASI	Suzanne Raymond, Office Asst
Stasi Redding, Supv ASI	Tina Thomas, Office Asst
Gemma Bilog, Sr Office Asst	

Agricultural/Standards Inspectors

Abdel Amador	Chase Goodman	Rick Walsh
Jose Arriaga	Daniel Oluwasakin	Ryan Wann
Tony Avina	Nestor Silva	Daniel Wristen
Nick Basinski	Kathryn Springer	Kara Roskop-Waters
Daniel Desserich	Jason Schwartz	
Dinna Estrella-Morris	Nancy Syzonenko	

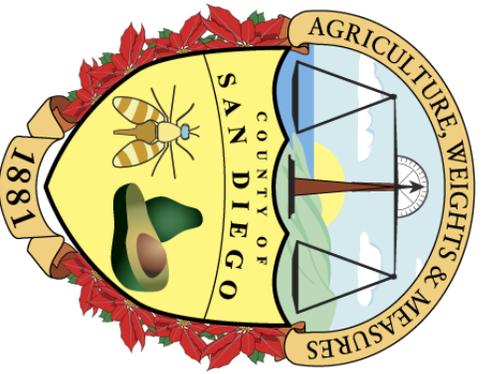
Integrated Pest Control

Marco Mares, Deputy Commissioner & Sealer

Mark Martinez, Supv PM Tech	Walter Graves, Env Planner
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Pest Management Technicians

Paul Cadena	Ivan Robles
Gabriel Hernandez	Ray Wood
Marshall Randol	Dustin Hylton



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